## SELECTIVE SHIELD/MATERIAL FLOW MECHANISM

## ABSTRACT

5 An apparatus and method for plating a workpiece. apparatus comprises, generally, an anode, a cathode, and a selective anode shield/material flow assembly. In use, both the anode and the cathode are immersed in a solution, and the cathode is used to support the workpiece. During an 10 electroplating process, the anode and the cathode generate an electric field emanating from the anode towards the cathode, to generate a corresponding current to deposit an electroplating material on the workpiece. The selective shield/material flow assembly is located between the anode 15 and the cathode, and forms a multitude of adjustable These opening have sizes that are adjustable during the electroplating process for selectively and controllably adjusting the amount of electric flux passing through the selective shield/material flow assembly and the 20 distribution of the electroplating material on the workpiece. The selective shield/material flow assembly can also be used with an electroless plating system. one selective shield material flow mechanism is used in a

selective shield material flow assembly.

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